

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,131,555 B2  
APPLICATION NO. : 10/673495  
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INVENTOR(S) : Teruo Maruyama et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Claim 1

Column 45, line 7, change “ $h_0 > h_1$ ,” to -- $h_0 > h_x$ ,--.

Claim 4

Column 45, line 58, change “ $0 > h_0 > h_x$ ,” to -- $0 < h_0 < h_x$ ,--.

Claim 5

Column 46, line 6, change “ $0h > h_x$ ,” to -- $0 < h < h_x$ ,--.

Claim 6

Column 46, line 16, change “ $Q_{max} > \pi(r_0^2 - r_i^2)V_{max}$ ” to -- $Q_{max} < \pi(r_0^2 - r_i^2)V_{max}$ --.

Claim 8

Column 46, line 26, change “ $h_0 \leq h_x$ ” to -- $h_0 \approx h_x$ --.

Claim 11

Column 46, line 62, change “ $P_{s0} + P_{squ10} + P_{squ20} > 0$ ,” to -- $P_{s0} + P_{squ10} + P_{squ20} < 0$ ,--.

Claim 21

Column 48, line 30, change “ $T_{nn-1}$ ,” to -- $T_{n-1}$ ,--.

Signed and Sealed this

Twentieth Day of February, 2007



JON W. DUDAS  
Director of the United States Patent and Trademark Office